**Algebra 1-2 Factoring Practice Test**  Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**In problems 1 – 3, factor the polynomial using the GCF.**

*Example:* 

1.  2.  3. 

**In problems 4 – 6, factor the trinomial in the form of** .

*Example:*  🡪 Find two numbers whose product is 12 and whose sum is 7 🡪 

4.  5.  6. 

**In problems 7 – 9, factor the binomial difference of squares.**

*Example:* 

7.  8.  9. 

**In problems 10 – 12, factor the 4-term polynomial.**

*Example:*  🡪 1st: group 2nd: GCF each group 3rd: rewrite



10.  11.  12. 

**In problems 13 – 14, factor the trinomial in the form of**  **using boxes.**

13. 

Step 1: a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_ c = \_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| Numbers | Sum 🡪 b | Product 🡺 |
|  |  |  |

Step 2:

Step 3: Fill in the box.

|  |  |
| --- | --- |
|  |  |
|  |  |

Step 4: Find the GCF of each row and column. *Note: If the top or left box has a negative, then the GCF is negative.*

Step 5: Write the final answer in the form of ( )( ).

14. 

Step 1: a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_ c = \_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| Numbers | Sum 🡪 b | Product 🡺 |
|  |  |  |

Step 2:

Step 3: Fill in the box.

|  |  |
| --- | --- |
|  |  |
|  |  |

Step 4: Find the GCF of each row and column. *Note: If the top or left box has a negative, then the GCF is negative.*

Step 5: Write the final answer in the form of ( )( ).